

Two Latest Inventions of Destruction For War on the Land and at Sea



STEAM PROPELLED TORPEDO IN TRENCH ATTACK.
Controlled by cables and windlasses from the attacking forces, the steam-propelled land torpedo could rush across "No Man's Land" with the speed of an express train, immune from rifle and machine-gun fire and a most elusive target for artillery fire.

"LAND TORPEDO," NEW TERROR IN WAR'S DEVICES

Inventors have brought forth new engines of destruction to add horror to the world war.

A cable-controlled land torpedo is the child of an American's brain and is to be employed by the allies.

German genius has added improvement to the new U-boat's mechanism which permits the quick hoisting of a swift-firing gun through a hatch, which can be quickly lowered, permitting rapid submerging of the under-sea craft.

A land torpedo, mounted on a modified automobile chassis and controlled by cables, is the latest "wonder invention" to be brought forward by the world war. The contrivance, which is designed for use in artillery preparation for a storm attack on enemy trenches, is the brain child of a New York man—V. A. Villar. The Scientific American tells all about it in its current issue, which is now on the news-stands.

Idea Is American's.
According to the article the idea of such a missile originated with Grand Duke Serge, formerly in charge of Russian artillery. It was suggested to Mr. Villar by Stafford Talbot, of London, and was worked out to a stage of practical perfection by the New Yorker.

Mr. Villar's model is operated by steam. In discussing it the Scientific American says:

Two Power Plant Types.
In the models thus far constructed two types of power plant have been favored; one, a self-contained type, is equipped with fuel supply tank and burner so that it can generate its own steam after its release; the other, having no burner nor fuel supply tank, is intended to be supplied with only the required amount of steam from a central supply station or otherwise, or, if desirable, the steam can be generated before launching by its own burner, which can then be removed.

Aside from the question of relative cost, the latter has certain advantages arising from its lighter weight and greater load-carrying capacity. In either type a standard steam-automobile engine of the two-cylinder, simple double-acting design is used. The boiler is a standard steam-automobile fourteen-inch boiler. So much for the power plant.

"All four wheels of the land torpedo are rigidly fixed to the axle which revolve. The engine is directly geared to the rear axle, which in turn is connected by chain drive to the front axle, thus giving the vehicle a four-wheel drive. The wheels are spiked in order to secure greater traction effort over the roughest terrain, and the device, it is believed by steam-automobile experts, should be capable of carrying a load of 150 or 200 pounds of high explosive at a speed varying, of course, with the ground conditions. Over a smooth ground the torpedo could run at a rate exceeding sixty miles an hour."

Controlled By Cables.
Unlike the usual torpedo operating in the water, the land torpedo requires a means of control after it has started on its destructive errand. And to accomplish this purpose, not only as regards the running of the torpedo but also the explosion of the charge, cables are employed. The speed of the car may be controlled by a cable which is connected with a valve in the supply pipe connecting the engine with the boiler, while from a spool carried on the rear axle a wire is paid out as the vehicle proceeds, and at the desired moment a current passed through this wire explodes the charge.

The cables, being connected to windlasses in the trenches of the attackers, can be pulled in so as to reclaim any torpedo which has not accomplished its mission or which is headed in the wrong direction. It will be noted that the axes of the torpedo are non-steering, and there is absolutely no steering gear, since the vehicle is supposed to keep its course after its release.

"With the cost of the land torpedo estimated at something like \$150 each, when made up in large quantities, it is evident that its use would materially lessen the cost of assault preparation. As the device is to be employed but once, and as its first and last trip would not be over a mile, and probably only a couple of hundred yards, highly finished construction would not be necessary."

NEW U-BOAT'S DEVICE OPENS WAY FOR RAIDERS; UPPER WORKS IN MAIL

Due to the alertness of American, British, and French destroyers, Germany has been compelled to revise her methods of U-boat warfare on a very radical scale within the last few months, says the Scientific American. In the early stages of the war the U-boats relied almost exclusively on the torpedo for sinking hostile merchantmen. It did not take long to prove that this method was too expensive even for a Kaiser's war chest. Too many costly torpedoes were wasted on vessels which escaped by zigzagging or increasing their speeds.

Held Up Quarry By Gunfire.
Then the Teutons adopted the plan of holding up their quarry by means of gunfire and sending them to the bottom by means of a charge of dynamite or a bomb "planted" aboard where they would be likely to sink the merchantman quickest. This method was used successfully for many months—in fact, until recently when the torpedo boat destroyers began to make the stave-runner lanes so unsafe for the "mechanical fish."

"Now," says the Scientific American, "the Germans are sending the traders to the bottom by gunfire alone in many instances, and this method of attack is far more formidable than has hitherto been believed possible on the part of the submarines."

The New Method.
In describing the new method of attack the weekly says: "It is a matter of common report that the German submarines that figured prominently in the early months of the war were equipped with two sorts of guns. One a 37-millimeter weapon firing from a fixed pedestal mount a shell of 14-inch caliber; and the other, a more formidable piece, arranged to disappear into the superstructure and to throw a 12-pound projectile."

Autoists Can Save Trouble and \$ By Reading This 'Tip'

Washington automobile drivers who are careless or thoughtless about some of the traffic regulations will save themselves good money and much trouble by reading this:

The police traffic squad has received instructions to strictly enforce the regulations requiring drivers to stop behind the building lines when waiting at crossings for the signal to "go." Some arrests have already been made and fines imposed. The traffic cops have this week made fresh chalk marks at all crossings to inform drivers where to stop. Pedestrians have been complaining that their lives are endangered when they seek to exercise their rights at crossings by machines standing across their right of way.

dable piece, arranged to disappear into the superstructure and to throw a 12-pound projectile. "This gun is a stump, but powerful rifle, having a caliber of 2.95 inches, and at moderate range likely to prove an unpleasant antagonist for a torpedo boat. But again this means exposure for the gun's crew, for the men had to come out upon the deck in plain sight if the submarine were running light, as she would of necessity have to be, to measure for this fashion with a surface fighting craft. To get under suddenly, the deck hatch might have to be closed before the men at the gun could retreat into the submarine."

How Gun Is Protected.
"We are able to illustrate, from a reliable source, the housing, gun and mount, which is said to be identical with that employed by the Germans in their very latest and largest U-boats. It is quite manifest that the installation is a long stride forward in making the submarine more formidable and efficient, especially when used as a commerce destroyer or when called upon to put a fight against the worst of her present foes, the high-speed sea-going torpedo boats. More than that, the arrangement shelters the gun crews from aerial attack."

"The particular installation which we are able to show is that for a quick-firing 14-pounder, but the operative principles would be the same for heavier weapons, such as the 4-inch rifles which we are told some of the U-boats now carry."

Hatch a Barbet.
"The gun, with its superposed recoil cylinder and sheltering hood, is mounted upon a revolving pedestal provided with seats for two operators. The gun is controlled by lateral movement and the other manipulating the elevator gear with his left hand and firing with his right. The revolving pedestal, in turn, is supported by a plunger elevator functioned by means of a pneumatic cylinder. The gun-hood is really the hatch cover, and when the weapon is lowered this cover is sealed water-tight against the rubber gasket in the recess at the top of the hatch or barbet."

"The gun pointers take their positions when the elevator is lowered, and rise with the rifle when the hatch cover lifts and the gun is cleared for action. The piece can be elevated and lowered in a few seconds. It is perfectly plain that an installation of this character adds in fact and potentially much to the military powers of a submarine. Because guns of this sort can be worked in the semi-light trim a submarine need not expose so much of her hull or superstructure and, accordingly, should be able just so much quicker to seal up and disappear below the waves for greater security."

"It is equally evident that a disappearing mount of this nature can be housed beneath and within protecting armor of moderate thickness and a frontal shield set upon the gun, thereby greatly increasing the resistance against attack. In this we can see the first step in an evolutionary line which will blaze the way to the still larger sea-going submarine with its upper works in mail." (Copyright, 1917, Munn & Co., Scientific American, by O. F. Wood.)

CONGRESS TO AID D. C. IN HONORING ITS DRAFT QUOTA

Congress and President Wilson will unite September 4 in paying tribute to District sons who will become a part of the great national army. National significance was added today to the plans for the parade and celebration in honor of Washington men called to the colors under the draft. The part Congress will play in giving the District recruits a rousing send-off will not be disclosed until Senate and House leaders are consulted at length.

Tomorrow the national lawmakers will be asked to help signalize the departure of Washington men for a training camp, according to Charles J. Columbus, secretary of the Retail Merchants' Association, one of the trade bodies enlisted in the movement.

Will Review Soldiers.
President Wilson, Commander-in-Chief of the Army of the United States, will review the embryo soldiers.

Word went out today for every organization in the District to participate in the honor parade. Commercial bodies, civic organizations, patriotic societies, and armed land and sea forces will be in the line of march from the Capitol to the White House Ellipse.

Both parade and demonstration will be under the direction of the citizens' committee, headed by representatives of Washington's commercial and civic bodies. Alexander Wolf is chairman of the committee from the Board of Trade. William F. Gude is head of the committee from the Chamber of Commerce.

An executive committee was appointed yesterday to superintend details of the celebration. It consisted of William F. Gude, chairman; Alexander Wolf and M. A. Leese, vice chairmen; Cuno H. Rudolph, treasurer; Charles J. Columbus, secretary; Robert N. Harper, Provost Marshal; Crowder, Maj. Gen. Joseph H. Kuhn, Major Constant Cordier, Melvin C. Hazen, Major Raymond Pullman, and James F. Oyster.

Half Holiday Likely.
President Wilson will be asked to sign an executive order giving all employees of the Government a half holiday on Tuesday, September 4, to witness the parade and attend the celebration on the Ellipse.

There will only be the one date for citizens to celebrate the departure of men of the draft, regardless of whether the men leave for camp on September 5 or two months later, according to Chairman Gude.

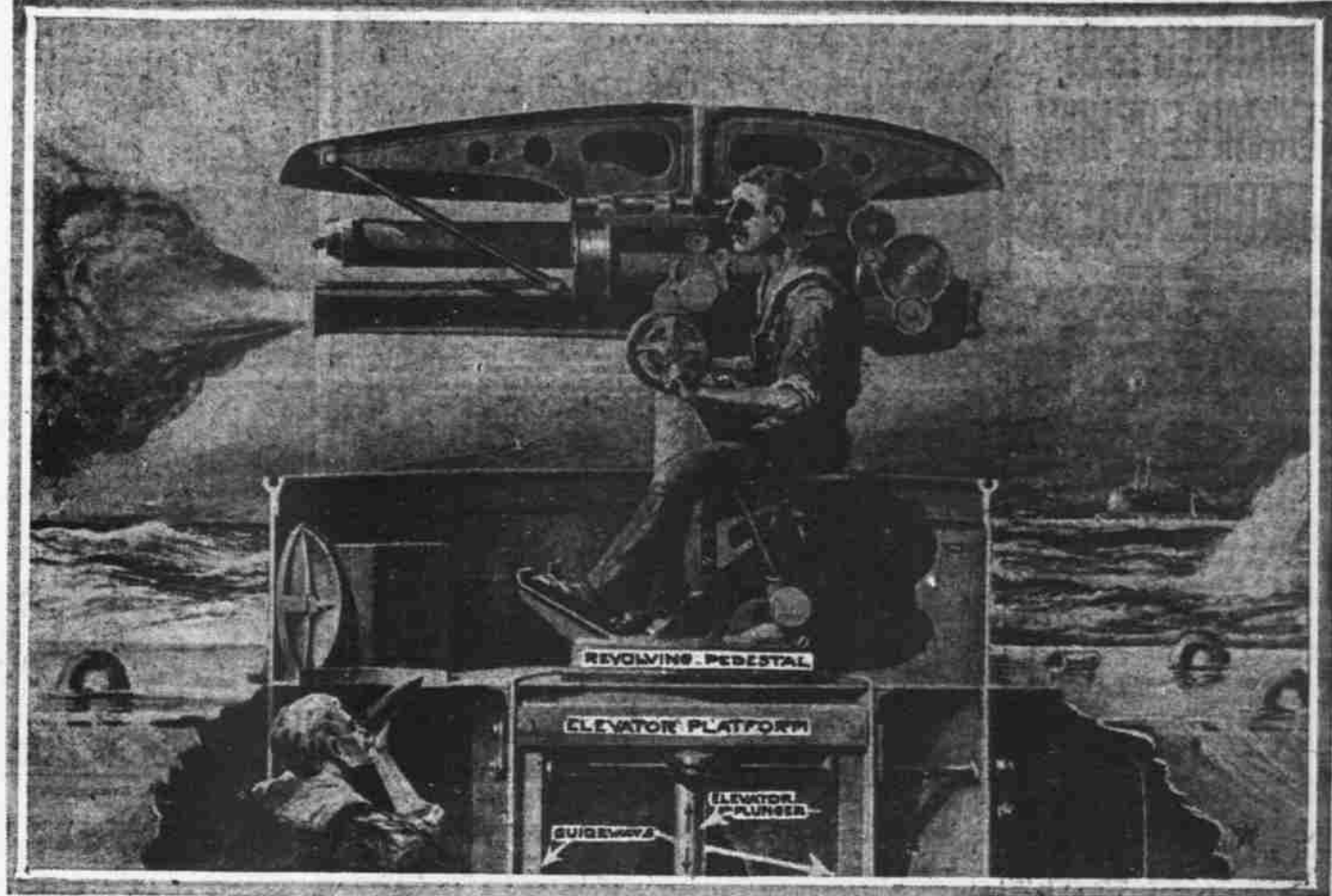
'SHELL FIRE' FOOTBALL PLANNED FOR SOLDIERS

CAMBRIDGE, MASS., Aug. 26.—They're going to play football in the trenches. Harvard has started a \$20,000 fund to provide the pikeline. Five hundred of them are already on their way, Fred Moore, graduate manager of the Harvard Athletic Association, announced today.

The plan, Moore says, is for every Harvard graduate to give at least \$1 toward the fund, which was suggested by Elliot Wadsworth, acting head of the American Red Cross.

EX-PREMIER STURMER OF RUSSIA NEAR DEATH

PETROGRAD, Aug. 26.—Physicians hourly expect the death of Boris V. Sturmer, premier of Russia in 1916, and prisoner in the fortress of St. Peter and St. Paul after the March revolution, who is ill.



ELEVATOR GUN HOIST IN NEW U-BOAT.
Greater havoc among allied merchantmen is predicted to follow the putting in sea-raider service an improved gun arrangement in the newest German submarines. The gun is hoisted through a hatch, quickly fired, and lowered for quicker submerging than in other U-boats.

CIVIC BODIES TO JOIN "SEND OFF" PARADE

The appeal for citizens to march in the parade that will signalize the departure of men of the District chosen to bear arms under the draft became city-wide today when Secretary Charles J. Columbus sent invitations to all civic bodies to participate.

The citizens' committee prepared the following form for organization heads or representatives to fill out, if they wish to take part in parade and celebration:

Name of organization.....
Character of uniform.....
Number of bands.....
Whether companies or divisions.....
Number to march.....
Vehicles (restricted strictly to inform ex-soldiers and sailors).....
Names of officers of organization.....
Officer authorized to make entry and to whom all notices shall be sent.....
Address.....
Phone No.....
Residence phone.....
Mail to Board of Trade, Chamber of Commerce, or Retail Merchants' Association.

CRACK OF THIS RIFLE TO RESOUND IN CAPITAL

After an absence of half a century, army rifle and cartridge have found their way back into the Capitol.

Target practice beneath the Capitol, in basement rooms occupied in the civil war by a Federal guard, will be indulged in by members of the Home Defense League. Special permission has been granted by the War Department for the use of the basement for this purpose.

The 1,600 members of the league will be accorded the privilege of shooting at the bull's eye while Congress debates above.

Permission to use the Capitol basement was obtained by Senator Lee S. Overman of North Carolina, chairman of the Senate Rules Committee.

MARS AND CUPID JOIN TO HASTEN MARRIAGE

War's alarms were first aid to Cupid in the marriage yesterday of Col. William G. Austin, infantry reserve corps, and Mrs. Frances Brooks, of Allentown, N. J.

The bride came to Washington and was met by Colonel Austin with a marriage license ready. The Rev. John H. Jeffries performed the nuptials.

DEATHS
LAWRENCE—On Saturday, August 25, 1917, at 2:40 p. m., IDA W., wife of P. O. Lawrence.

FUNERAL from her late residence, 1415 Chapin street, northwest, on Tuesday, August 27, 1917, at 1 p. m., Interment private in Arlington Cemetery.

Brooklyn, N. Y., daily papers please copy.

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WAR BILL KNIFED BY INSURANCE MEN, ADAMSON CHARGES

Friends of the measure now in Congress providing for insurance for the soldiers, sailors, and marines who may lose their lives abroad are discussing today with interest the attitude of Congressman Adamson of Georgia, who is fighting for such a bill.

The Georgia Congressman, in an extended speech yesterday charged that private insurance companies are trying to defeat the Government's plan for insuring the members of its fighting forces. Fearful lest their business be imperilled, the insurance men are trying to emasculate the bill,

which provides a \$10,000 policy for \$80 for soldiers and sailors, re-declared.

Adamson, who is chairman of the House Interstate and Foreign Commerce Committee, holding hearings on the bill, charged specifically that the advisory committee which Secretary of the Treasury McAdoo asked to aid in drafting the bill were sticking it in the back now while pretending to befriend it.

"The committee of insurance men," said Adamson, "who say they were asked by the Government to help draft a bill for the benefit of the soldiers who are to defend the nation, have come to look remarkably like a lobby of insurance magnates opposed to the bill."

"So far their aid has been directed toward cutting out of the bill the provision under which the men are to be allowed to take out Government insurance."

"Like Idol-makers."
They talk of aiding the committee and helping strengthen the bill, but in the guise of friends they are knitting it in the back.

"They remind me of the idol-makers, who said of the Apostle Paul: 'Away with these Christians, for aye, ye know that by this craft we have our wealth.'"

30 SENATORS JOIN TO FORCE PROFITS TAX OF 80 PER CENT

The big Senate battle to conscript wealth for war, will widen its scope this week.

An 80 per cent tax on war profits will be demanded by a group of Senators who are determined upon an upward revision of the war revenue bill.

Led by Borah, Johnson of California, Kanyon and Hollis the thirty Senators yesterday pledged themselves to the fight. This action will be definitely ratified at another meeting tomorrow before the Senate meets.

Aiding the conscriptionists is a statistician who will furnish data tomorrow on the swollen profits some corporations are reaping from the world struggle.

Shoe Values that outweigh the Price

This Week: A Special Purchase Of Women's Fall Boot Novelties

At a Big Price Concession—
\$3.85 a Pair

THESE boots came to us from a Brooklyn, N. Y., shoe manufacturer (Brooklyn is the recognized Style Headquarters of Women's Footwear). And they come to you via the "ECONOMY ROUTE" at only \$3.85 pair.

200 pairs of them—all new fall models—Gray or Brown Kid, Black Kid and Patent Leather High Cut Laced Boots. With high Louis heels and colored buck or white kid tops.

There Should Be a "Scramble" To Get Them, While They Last, at..... **\$3.85**

Women's New Fall English "Service Shoes" of Brown Calfskin, high cut, with nearly indestructible "TROT-MOC" soles—Just the thing for women engaged in war activities, and priced at only..... **\$4.85**

Many extra high grade novelties in Women's Colored Kidskin Boots—kinds that are going to sell generally at \$10. In all the popular shades, brown and gray—also two-tone effects—Special at..... **\$7.85**

The Last Shot at Remaining Summer Shoes!

365 Pairs Women's Low Shoes at	190 Pairs Women's Low Shoes at	Women's White Dress and Sports Shoes
\$1.00	65c	\$1.35

Broken sizes up to 7, of good pumps and oxfords—in all leathers—that were \$3 to \$5.

Still more badly broken up (mostly small sizes) of women's low shoes—that were \$2 to \$4.

White Sea Isle Duck Pumps, Oxfords and Sports Oxfords that were \$2.50 to \$5. Many excellent styles.

ECONOMY SHOE MARKET
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TODAY'S BEAUTY HINT

It is not necessary to shampoo your hair so frequently if it is entirely and properly cleaned each time by the use of a really good shampoo. The easiest to use and quickest drying, shampoo is one that brings out all the natural beauty of the hair and may be enjoyed at very little expense, by dissolving a teaspoonful of canthox, which can be obtained from any druggist, in a cup of hot water. This makes a full cup of shampoo liquid, enough so it is easy to apply it to all the hair instead of just the top of the head. This when rubbed into the scalp and onto every strand of hair, chemically dissolves all impurities. It is very soothing and cooling in its action, as well as beneficial to both scalp and hair. After rinsing out the lather so created, you will find the scalp is fresh, clean and free from dandruff, while the hair dries quickly and evenly, developing a bright luster and a soft stiffness that makes it seem very heavy.—Adv.